No. 8000135

THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Pioneer Hi-Bred International, Inc.

Whereas, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF seventeen YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, IMPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. UNITED STATES SEED OF THIS VARIETY (1) SHALL BE SOLD BY VARIETY NAME ONLY AS CERTIFIED SEED AND (2) SHALL CONFORM TO THE NUMBER OF GENERATIONS THE OWNER OF THE RIGHTS. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

COTTON

'PR 75'

In Testimony Whereof, *I have hereunto set my hand and caused the seal of the* Plant Variety Protection Office *to be affixed at the City of* Washington *this* 20th *day of* November *in the year of our Lord one thousand nine hundred and* eighty.

PLANT VARIETY PROTECTION OFFICE · U.S. DEPARTMENT OF AGRICULTURE

Attest:

Commissioner
Plant Variety Protection Office
Grain Division
Agricultural Marketing Service

Secretary of Agriculture

UNITED STATES DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
LIVESTOCK, POULTRY, GRAIN & SEED DIVISION

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

INSTRUCTIONS: *See Reverse.*

FORM APPROVED
OMB NO. 40-R3822

No certificate for plant variety protection may be issued unless a completed application form has been received (5 U.S.C. 553).

1a. TEMPORARY DESIGNATION OF VARIETY	1b. VARIETY NAME	FOR OFFICIAL USE ONLY
PR75	PR75	PV NUMBER 8000135
2. KIND NAME: Cotton	3. GENUS AND SPECIES NAME: Gossypium hirsutum L.	FILING DATE: 6/27/80 — TIME: 1:30 A.M. (P.M.)
4. FAMILY NAME (BOTANICAL): Malvaceae	5. DATE OF DETERMINATION: May, 1976	FEE RECEIVED: $ 500.00 / $ 250.00 — DATE: 6/27/80 / 10/16/80

6. NAME OF APPLICANT(S)	7. ADDRESS *(Street and No. or R.F.D. No., City, State, and ZIP Code)*	8. TELEPHONE AREA CODE AND NUMBER
Pioneer Hi-Bred International, Inc.	Route #3 Vernon, Texas 76384	817-552-6242

9. IF THE NAMED APPLICANT IS NOT A PERSON, FORM OF ORGANIZATION: *(Corporation, partnership, association, etc.)*	10. IF INCORPORATED, GIVE STATE AND DATE OF INCORPORATION	11. DATE OF INCORPORATION
Corporation	Iowa	May 7, 1926

12. NAME AND MAILING ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS APPLICATION AND RECEIVE ALL PAPERS:
Dr. Jerry L. Baker
Cotton Breeding Department
Pioneer Hi-Bred International, Inc.
Route #3
Vernon, Texas 76384

13. **CHECK BOX BELOW FOR EACH ATTACHMENT SUBMITTED:**

- [X] 13A. Exhibit A, Origin and Breeding History of the Variety *(See Section 52 of the Plant Variety Protection Act.)*
- [X] 13B. Exhibit B, Novelty Statement.
- [X] 13C. Exhibit C, Objective Description of the Variety *(Request form from Plant Variety Protection Office.)*
- [X] 13D. Exhibit D, Additional Description of the Variety.

14a. DOES THE APPLICANT(S) SPECIFY THAT SEED OF THIS VARIETY BE SOLD BY VARIETY NAME ONLY AS A CLASS OF CERTIFIED SEED? *(See Section 83(a). (If "Yes," answer 14B and 14C below.)* [X] YES [ ] NO

14b. DOES THE APPLICANT(S) SPECIFY THAT THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS?	14c. IF "YES," TO 14B, HOW MANY GENERATIONS OF PRODUCTION BEYOND BREEDER SEED?
[X] YES [ ] NO	[X] FOUNDATION [X] REGISTERED [X] CERTIFIED

15a. DID THE APPLICANT(S) FILE FOR PROTECTION OF THIS VARIETY IN OTHER COUNTRIES? [ ] YES [X] NO *(If "Yes," give name of countries and dates.)*

15b. HAVE RIGHTS BEEN GRANTED THIS VARIETY IN OTHER COUNTRIES? [ ] YES [X] NO *(If "Yes," give name of countries and dates.)*

16. DOES THE APPLICANT(S) AGREE TO THE PUBLICATION OF HIS/HER (THEIR) NAME(S) AND ADDRESS IN THE OFFICIAL JOURNAL? [X] YES [ ] NO

17. The applicant(s) declare(s) that a viable sample of basic seed of this variety will be furnished with the application and will be replenished upon request in accordance with such regulations as may be applicable.

The undersigned applicant(s) is (are) the owner(s) of this sexually reproduced novel plant variety, and believe(s) that the variety is distinct, uniform, and stable as required in Section 41, and is entitled to protection under the provisions of Section 42 of the Plant Variety Act.

Applicant(s) is (are) informed that false representation herein can jeopardize protection and result in penalties.

June 19, 1980
(DATE)

Pioneer Hi-Bred International, Inc.
by Jerry L. Baker
(SIGNATURE OF APPLICANT)

(DATE)

(SIGNATURE OF APPLICANT)

INSTRUCTIONS

GENERAL: Send an original copy of the application and exhibits, at least 2,500 viable seeds, and $500 fee ($250 filing fee and $250 examination fee) to U.S. Dept. of Agriculture, Agricultural Marketing Service, Livestock, Poultry, Grain and Seed Division, Plant Variety Protection Office, National Agricultural Library Building, Beltsville, Maryland 20705. (See section 180.175 of the Regulations and Rules of Practice.) Retain one copy for your files. All items on the face of the form are self-explanatory unless noted below.

ITEM

5 Give the date the applicant determined that he had a new variety based on (1) the definition in section 41(a) of the Act and (2) the date a decision was made to increase the seed.

13a Give: (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method; (2) the details of subsequent stages of selection and multiplication; (3) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified and (4) evidence of uniformity and stability.

13b Give a summary statement of the variety's novelty. Clearly state how this novel variety may be distinguished from all other varieties in the same crop. If the new variety most closely resembles one or a group of related varieties: (1) identify these varieties and state all differences objectively; (2) attach statistical data for characters expressed numerically and demonstrate that these differences are significant; and (3) submit, if helpful, seed and plant specimens or photographs of seed and plant comparisons clearly indicating novelty.

13c Fill in the Exhibit C, Objective Description form, for all characteristics for which you have adequate data.

13d Describe any additional characteristics that are not described, or whose description cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the description of characteristics that are difficult to describe, such as, plant habit, plant color, disease resistance, etc.

14a If "YES" is specified (seed of this variety be sold by variety name only as a class of certified seed) the applicant may NOT reverse his affirmative decision after the variety has either been sold and so labeled, his decision published, or the certificate has been issued. However, if the applicant specified "NO," he may change his choice. (See section 180.16 of the Regulations and Rules of Practice.)

15a See section 42 of the Plant Variety Protection Act and section 180.7 of the Regulations and Rules of Practice.

EXHIBIT A

"ORIGIN AND BREEDING HISTORY OF THE VARIETY"

1. The parents used in originating and developing "PR75" were "Lockett 4789-A," "SP11-67," "79N,BV65," and "H1-67."

"Lockett 4789-A" is a commercial variety developed by The Lockett Seed Company. Breeder seed is now owned and maintained by Pioneer Hi-Bred International, Inc. The breeding lines "SP11-67," "79N,BV65" and "H1-67" were developed and made available by Dr. Luther S. Bird, Professor, Department of Plant Sciences, Texas A & M University, College Station, Texas.

The cross was made to combine the features of "Lockett 4789-A;" high yielding ability, earliness, storm resistant boll, compact fruiting and high fiber quality; and resistance to bacterial blight and fusarium wilt-nematode from "SP11-67" and "79N,BV65." "SP11-67," "79N,BV65" and "H1-67" carry the gene combination $B_2B_3B_7$ for bacterial blight resistance.

The breeding method used in developing "PR75" was the pedigree method.

2. "PR75" originated in 1968 from a hand pollinated cross between the two Lockett strains (Lockett 4789-A X SP11-67) and (79N,BV65 X H1-67) in the Lockett Seed Company breeding nursery at Lockett, Texas. The F_1's were sent to Iguala, Mexico, in the Fall of 1968 for selfing. Individual plants were selected from the F_2 generation in the 1969 field nursery at Lockett.

Laboratory - greenhouse procedures for simultaneously screening and selecting for multiple disease resistance were applied. Seed from the F_2 individual plant selections were tested in the Fall of 1969, and selection for cold tolerance-germination at 55°F, resistance to seed deterioration, bacterial blight, verticillium wilt and fusarium wilt.

EXHIBIT A (CONTINUED)

Selected plants from the greenhouse were grown in the field in 1970 and 1971 and individual plant selections were made. From 1971 to 1974 progeny and/or increase row selections were made based on yield, earliness, multiple disease resistance, agronomic performance and fiber quality.

Duplicate plantings of the material were made each year from 1971 to 1974 at the Lockett Seed Company breeding nurseries at Lockett and Ropesville, Texas. The Lockett breeding nursery is naturally infested with the fungus causing fusarium wilt, Fusarium oxysporum f. vasinfectum (ATK.) Snyder and Hansen, and the root-knot nematode, Meloidogyne incognita, Chitwood. The Ropesville nursery is naturally infested with Verticillium albo-atrum, Reinke and Berth. Artificial inoculations with a mixture of races 1, 2, 7 and 18 of Xanthomonas malvacearum (E. F. Sm.) Dowson, the bacterial blight pathogen were made each year.

Replicated yield tests have been conducted over a wide area of Texas and Oklahoma at numerous locations for seven years, 1973-1979. These tests were conducted by The Lockett Seed Company, Pioneer Hi-Bred International, Inc. and State Agricultural Experiment Stations; under irrigation and dry-land conditions (data attached). In addition, large strip test comparisons were made in 1979 over 34 locations in Texas and Oklahoma. The variety was tested under the strain numbers "Lockett 168" and "X168-9." "PR75" is a stable, uniform and homogeneous variety.

Breeder seed of "PR75" was grown near Lockett, Texas in 1977, 1978 and 1979. Foundation seed will be increased in 1980, as shown in the diagram.

EXHIBIT A (CONTINUED)

3. "PR75" may include yellow pollen color variants up to a frequency of 5% during reproduction and multiplication. No other variants are known to be associated with "PR75."

4. "PR75" is a uniform, stable variety that reproduces true-to-type each generation. No mutations or off-types other than the yellow pollen color variants have been observed in Breeder seed.

EXHIBIT A (CONTINUED)

PEDIGREE OF "PR75"

1968 Lockett, Texas	(Lockett 4789-A X SP11-67) X (79N,BV65 X H1-67)	
1968-69 Iguala, Mexico		F_1
1969 Lockett	Individual plant selection. Bacterial blight screening.	F_2
1969-70 Greenhouse-Lockett	Multiple disease resistance screening. Individual plant selection.	F_3
1970 Lockett	Individual plant and progeny row selection.	F_4
1971 Lockett and Ropesville, Texas	Individual plant selection. Progeny row-testing, evaluation and selection.	F_5
1972 Lockett and Ropesville	Progeny and increase rows-evaluation and selection.	F_6
1973 Lockett and Ropesville	Increase rows-evaluation and selection. Company performance tests.	F_7
1974 Lockett and Ropesville	Increase rows-evaluation and selection. Company performance tests.	F_8
1975 Lockett and Ropesville	Company performance tests.	F_9
1976	Company performance tests at six Texas locations.	F_{10}
1977 Lockett	Increase block-3.0 acres-Breeder seed. Company performance tests at four Texas locations. Oklahoma and Texas Statewide yield trials.	F_{11}

EXHIBIT A (CONTINUED)

PEDIGREE OF "PR75"

1978 Lockett	Increase block-50 acres-Breeder seed. Company performance tests at seven Texas locations. Oklahoma and Texas Statewide yield trials.	F_{12} ↓
1979 Lockett	Increase block-300 acres-Parent seed. Company performance tests at ten locations in Texas. Oklahoma and Texas Statewide yield trials. Company cotton strip test comparisons at 34 locations in Texas and Oklahoma.	F_{13}
1980	Increase block-600 acres-Foundation seed.	

EXHIBIT B

"NOVELTY STATEMENT"

Novelty is based on the unique combination of the following characteristics:

"PR75" most closely resembles "Lockett 77;" however, "PR75" has lighter weight seeds (11.1 vs 11.6 grams/100 seed), higher lint percentage (37.8 vs 36.6%), shorter fiber (1.015 vs 1.044 inches) and better length uniformity index (47.2 vs 46.3%) than "Lockett 77" (see Table 1). "PR75" also has cream and yellow pollen in a 19:1 ratio, whereas "Lockett 77" has a 2:1 ratio of yellow to cream pollen.

Table 1. Comparison of PR75 with Lockett 77.

Variety	Boll Size 1/	Seed Index	Seeds per boll	Lint percent	Fiber Length 2.5% SL	Fiber Length 50% SL	Fiber Length Unif. Index	Strength T_1	Strength MPSI	Elongation E_1	Micronaire
Number of Comparisons (n)	39	31	31	50	48	43	43	41	43	33	48
PR75	79.1	11.1	31.9	37.8	1.015	0.482	47.2	20.6	90.4	6.9	3.91
Lockett 77	77.2	11.6	32.3	36.6	1.044	0.486	46.3	20.6	91.7	6.6	3.73
Difference	1.9	-0.5 3/	-0.4	1.2 2/	-0.029 2/	-0.004	0.9 3/	0.0	-1.3	0.3	0.18

1/ Number of bolls necessary to produce one pound of seed cotton.

2/ Significant at the 1% probability level.

3/ Significant at the 10% probability level.

FORM APPROVED. OMB NO. 40-R3712

FORM GR-470-8 (10-2-72)

UNITED STATES DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
GRAIN DIVISION
HYATTSVILLE, MARYLAND 20782

EXHIBIT C (Cotton)

OBJECTIVE DESCRIPTION OF VARIETY

INSTRUCTIONS: See Reverse.

COTTON (*GOSSYPIUM SPP.*)

NAME OF APPLICANT(S)

Pioneer Hi-Bred International, Inc.

ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code)

Cotton Breeding Department
Route #3
Vernon, Texas 76384

FOR OFFICIAL USE ONLY

PVPO NUMBER 8000135

VARIETY NAME OR TEMPORARY DESIGNATION

PR 75

Place the appropriate number that describes the varietal character of this variety in the boxes below.
Place a zero in first box (e.g. [0][8][9] or [0][9]) when number is either 99 or less or 9 or less.

1. SPECIES:

[1] 1 = GOSSYPIUM HIRSUTUM 2 = GOSSYPIUM BARBADENSE

2. AREA(S) OF ADAPTION (0 = Not Tested, 1 = Not Adapted, 2 = Adapted):

[0] EASTERN [0] DELTA [2] CENTRAL [2] HIGH PLAINS [2] EL PASO AREA

[0] WESTERN LOW HOT VALLEYS [0] SAN JOAQUIN [ ] OTHER (Specify) _____

3. MATURITY (50% Open Boll):

[0][9] NO. OF DAYS *EARLIER* THAN . . . . . [7]

[ ][ ] NO. OF DAYS *LATER* THAN . . . . . [ ]

1 = COKER 310 2 = DELTAPINE 16 3 = STONEVILLE 213
4 = PAYMASTER 111 5 = ACALA 1517-70 6 = ACALA SJ-1
7 = LANKART 57 8 = OTHER (Specify) _____

4. PLANT HABIT:

[2] 1 = SPREADING 2 = INTERMEDIATE 3 = COMPACT

[1] 1 = FOLIAGE SPARSE 2 = DENSE 3 = OTHER (Specify) _____

5. PLANT HEIGHT:

[1][4] CM. *SHORTER* THAN . . . . . [4]

[0][7] CM. *TALLER* THAN . . . . . [7]

1 = COKER 310 2 = DELTAPINE 16 3 = STONEVILLE 213
4 = PAYMASTER 111 5 = ACALA 1517-70 6 = ACALA SJ-1
7 = LANKART 57 8 = OTHER (Specify) _____

6. MAIN STEM:

[3] 1 = LAX 2 = ASCENDING 3 = ERECT

[17] CM. TO FIRST FRUITING BRANCH

[0][6] NO. OF NODES TO FIRST FRUITING BRANC (from cotyledonary node)

7. LEAF:

[1][5] CM. WIDTH OF WIDEST LEAVES AT MATURITY

8. LEAF PUBESCENSE:

[3] 1 = GLABROUS (HAIRS AS SPARSE AS D_2 SMOOTH)
2 = SMOOTH LEAF (DELTAPINE SMOOTH LEAF) 3 = PUBESCENT (STONEVILLE 213)
4 = HEAVY PUBESCENCE (H_1 OR H_2) 5 = OTHER (Specify) _____

9. LEAF COLOR:

[2] 1 = VIRESCENT YELLOW 2 = LIGHT GREEN 3 = DARK GREEN (*Acala-442*) 4 = RED
5 = OTHER (Specify) _____

10. LEAF TYPE:

[1] 1 = NORMAL 2 = OKRA 3 = SUPER OKRA 4 = OTHER (Specify) _____

11. FLOWER:

[2] 1 = NECTARILESS 2 = NECTARIED

[1] Petals: 1 = CREAM 2 = YELLOW

[*] Pollen: 1 = CREAM 2 = YELLOW

* Pollen color is cream and yellow in the ratio of 19:1.

12. FRUITING BRANCH TYPE:

[2] 1 = CLUSTER 2 = SHORT 3 = NORMAL

[1] 1 = DETERMINATE 2 = INDETERMINATE

13. GOSSYPOL CONDITION:

[3] 1 = GLANDLESS 2 = REDUCED GLANDS 3 = NORMAL GLANDS
4 = OTHER (Specify) _____

[1] 1 = NORMAL BUD GOSSYPOL
2 = HIGH BUD GOSSYPOL

14. SEEDS:

[0][1][1] ± [0][1] SEED INDEX (*Fuzzy seed basis*)

[2] Seed Fuzz: 1 = SPARSE (GREGG 35) 2 = MODERATE (DPL-16) 3 = HEAVY (ACALA SJ-1) 4 = OTHER (Specify)

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FORM GR-470-8 (REVERSE)

15. BOLLS:

2 Locules: 1 = 3-4, 2 = 4-5

3 2 NO. SEEDS PER BOLL

3 7 8 LINT PERCENT

3 6 MM. DIAMETER

2 Pitted: 1 = NONE, 2 = FINELY, 3 = COURSELY

5 7 7 GRAMS SEED COTTON PER BOLL

2 Breadth: 1 = BROADER AT BASE, 2 = BROADER AT MIDDLE

2 Type: 1 = STORMPROOF (WESTBURN 70), 2 = STORM RESISTANT (LANKART 57), 3 = OPEN (DELTAPINE 16)

3 Shape: 1 = LENGTH < WIDTH, 2 = LENGTH = WIDTH, 3 = LENGTH > WIDTH

16. BRACTEOLES:

3 Breadth: 1 = LENGTH < WIDTH 2 = LENGTH = WIDTH 3 = LENGTH > WIDTH

1 Teeth: 1 = FINE 2 = COURSE

3 Teeth: 1 = 3-4 2 = 5-7 3 = 8-10 4 = OTHER (Specify) _____

17. YIELD: Compared to—

PERCENT *LESS* THAN .....

2 3 4 PERCENT *MORE* THAN .....

7 1 = COKER 310 2 = DELTAPINE 16 3 = STONEVILLE 213 4 = PAYMASTER 111 5 = ACALA 1517-70 6 = ACALA SJ-1 7 = LANKART 57 // LX571

18. FIBER LENGTH (Complete one or more of the following and give the means):

0 4 8 SPAN LENGTH 50%

1 0 2 SPAN LENGTH 2.5%

U.H.M. LENGTH

MEAN LENGTH

3 2 STAPLE LENGTH 32nd INCHES

UNIFORMITY RATIO (MEAN/U.H.M.)

4 7 UNIFORMITY INDEX (50% SPAN/2.5% SPAN)

19. FIBER STRENGTH AND ELONGATION:

0 9 0 1,000 P.S.I.

0 6 9 ELONGATION E_1

4 1 1 STILOMETER T_0

3 8 9 MICRONAIRE READING

1 1 2 YARN STRENGTH (Give test method) _____

2 0 5 STILOMETER T_1

20. DISEASE: (0 = Not Tested, 1 = Susceptible, 2 = Resistant)

1 VERTICILLIUM WILT	* FUSARIUM WILT	* ROOT KNOT NEMATODE	2 BACTERIAL BLIGHT (Race 1)
2 BACTERIAL BLIGHT (Race 2)	0 ASCOCHYTA BLIGHT	1 PHYMATOTRICHUM ROOT ROT	0 RHIZOCTONIA
0 ANTHRACNOSE	0 RUST	OTHER (Specify)	* Intermediate Resistance

21. INSECT: (0 = Not Tested, 1 = Susceptible, 2 = Resistant)

1 BOLL WEEVIL	1 APHID	1 FLEAHOPPER	0 LEAFWORM
1 FALL ARMYWORM	0 GRASSHOPPER	1 LYGUS	1 PINK BOLLWORM
0 STINKBUG	1 THRIP	0 CUTWORM	1 SPIDERMITE
OTHER (Specify) _____			

REFERENCES: The following publications may be used as a reference aid for the standardization of terms and procedures for completing this form:

(1) Brown, Harry B., and J. O. Ware, 1958, Cotton, McGraw-Hill Book Company, Inc., New York.

(2) Lewis, C. F., and H. H. Ramey, Jr., 1971, 1970 Regional Cotton Variety Tests, ARS 34-130, United States Department of Agriculture.

COLORS: Nickerson's or any recognized color fan may be used to determine flower color of the described variety.

JUN 27 1980

EXHIBIT D

"ADDITIONAL DESCRIPTION OF THE VARIETY"

"PR75" is an American Upland cotton variety, Gossypium hirsutum L. The unique characteristics of "PR75" are high yield, multiple disease resistance, and early maturity. It exhibits high resistance to bacterial blight and intermediate resistance to the fusarium wilt-root knot nematode complex. The variety has also shown partial resistance to seedling disease, and seed rot and seed deterioration (i.e., cold tolerance).

"PR75" is very similar, except for slightly larger leaves, and a slightly shorter but less compact plant, in type to "Lockett 77." The new variety also has the same earliness of maturety as "Lockett 77."

The bolls of "PR75" are storm resistant, and the plant type and fruiting habit are suitable for both machine stripping or picking. "PR75" has an average of 79 bolls per pound of seed cotton (i.e., 5.77 grams of seed cotton per boll), and the lint percent averages 37.8. The ginned seed have moderate linters. "PR75" is a pubescent type with hair density equal to "PR68," but greater than "Lockett 77."

On the basis of data accumulated from seven years (1973-1979) of testing, the average fiber properties of "PR75" are:

Length	- Inches	32
	- 50% Span	0.48
	- 2.5% Span	
	- Uniformity Index	47
Strength	- MPSI	90
	- Stelometer (T_1)	20.5
	- Elongation (E_1)	6.9

9

Yarn Strength - 22's or 27 tex 112

- 30's or 20 tex 76

Fineness - Micronaire 3.89

"PR75" has been tested over a wide range of environments in Texas and Oklahoma and demonstrated adaptability to most growing conditions in these states (i.e., high yielding ability, good fiber quality, and stability to adversities in production and environmental fluctuations.

Table 2, a summary table, shows yield, lint percentage and fiber properties of "PR75" as compared to commercial varieties grown in Texas and Oklahoma in 57 performance tests over the seven-year period, 1973-1979.

Table 3 shows average lint yield of "PR75" in comparison with twelve leading commercial cotton varieties.

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(7)

ASSIGNMENT OF CERTIFICATE OF PLANT VARIETY PROTECTION

THE STATE OF IOWA)

COUNTY OF POLK)

WHEREAS, Pioneer Hi-Bred International, Inc., an Iowa corporation, has been granted Certificate of Plant Variety Protection No. 8000135 by the Plant Variety Protection Office of the United States Department of Agriculture, such certificate being dated November 20, 1980, and covering a variety of cotton planting seed known as "PR75."

WHEREAS, Cargill, Incorporated, a Delaware corporation, of P.O. Box 9300, Minneapolis, Minnesota, is desirous of acquiring said variety and the certification thereof;

NOW, THEREFORE, for good and valuable consideration, receipt of which is hereby acknowledged, said Pioneer Hi-Bred International, Inc., does hereby assign unto the said Cargill, Incorporated, all rights, title and interest in and to the said variety and Certificate of Plant Variety Protection No. 8000135.

Pioneer Hi-Bred International, Inc.

BY: _____

_____

THE STATE OF IOWA, COUNTY OF POLK, SS:

On this 26th day of October, 1983, before me, the undersigned, a Notary Public in and for the State of Iowa personally appeared Thomas N. Urban and Dale L. Porter to me personally known, who, being by me duly sworn, did say that they are the President and Secretary respectively, of said corporation executing the within and foregoing instrument, that the seal affixed thereto is the seal of said corporation; that said corporation by authority of its Board of Directors; that the said President and Secretary as such officers acknowledged the execution of said instrument to be the voluntary act and deed of said corporation, by it and by them voluntarily executed.

_____

NOTARY PUBLIC IN AND FOR IOWA

8000135

SDC:rlf 5/01/94 (10157)

ASSIGNMENT OF PLANT VARIETY PROTECTION ACT CERTIFICATES AND APPLICATIONS

WHEREAS, CARGILL, INCORPORATED, including the CARGILL HYBRID SEEDS DIVISION ("CARGILL"), a Delaware corporation with its principal office and place of business at 15407 McGinty Road West, Wayzata, MN 55391, is the owner of the varieties, Plant Variety Protection Act ("PVPA") certificates and application identified below:

PLANT VARIETY PROTECTION CERTIFICATES

VARIETY	CERTIFICATE NO.	ISSUED
Paymaster 784	7700054	January 26, 1978
Paymaster 785	7700076	January 26, 1978
Paymaster 792	7700077	February 2, 1978
PR68	7800104	March 1, 1979
PR75	8000135	November 20, 1980
Paymaster 145	8000080	May 14, 1981
Paymaster 404	8000081	April 16, 1981
7563	8300031	September 29, 1983
Lankart 175	8400153	November 29, 1985
Lankart 511	8600086	November 28, 1986
Lankart 311	8700086	June 30, 1987
Paymaster 892	8900270	November 30, 1990
Paymaster 147	8900269	November 30, 1990
Lankart 142	9000215	April 30, 1991
Paymaster HS26	8600087	June 30, 1992 (amended)
Paymaster HS200	9000216	May 28, 1993 (amended)

PLANT VARIETY PROTECTION APPLICATION

VARIETY	APPLICATION NO.	FILED
Paymaster HS30	9200264	September 14, 1992

WHEREAS, DELTA AND PINE LAND COMPANY ("DELTA and PINE LAND"), a Delaware corporation with its principal office and place of business at 100 North Main Street, Scott, Mississippi is desirous of acquiring said varieties PVPA certificates and application and all rights, title and interest therein;

SDC:rlf 5/01/94 (10157)

NOW, THEREFORE, for good and valuable consideration, receipt of which is hereby acknowledged, CARGILL does hereby assign unto DELTA and PINE LAND all rights, title and interest that it may have in and to said varieties PVPA certificates, application and the underlying cottonseed inventions.

This Agreement was executed at Dallas, Texas, on May 2, 1994.

ATTEST:

CARGILL, INCORPORATED

By: Michael J. Hall

Name: MICHAEL J. HALL

Title: CONTROLLER - SEED DIV.

(6)

No. 8000135

THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Pioneer Hi-Bred International, Inc.

Whereas, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF seventeen YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, IMPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. UNITED STATES SEED OF THIS VARIETY (1) SHALL BE SOLD BY VARIETY NAME ONLY AS A CERTIFIED SEED AND (2) SHALL CONFORM TO THE NUMBER OF GENERATIONS THE OWNER OF THE RIGHTS. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

COTTON

'PR 75'

In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington this 20th day of November in the year of our Lord one thousand nine hundred and eighty.

Attest:

Commissioner
Plant Variety Protection Office
Fruit Division
Agricultural Marketing Service

Secretary of Agriculture